

CLAIMS

1. An apparatus for removing body fat in a human body, comprising:

a generating means generating electric pulses of
5 low-frequency band; and

a transmitting means transmitting the electric pulses to an exercising human body.

2. The apparatus set forth in claim 1, wherein said transmitting means comprises surface-attaching pads.

10 3. The apparatus set forth in claim 2, wherein the surface-attaching pads consist of a plurality of pairs of positive(+) and negative(-) pole pads, each pair being arranged at predetermined intervals, and also arranged such that each dipole moment of each pair should be alternated.

15 4. The apparatus set forth in claim 1, wherein said generating means changes the frequency band of the electric pulses at intervals, or changes pulse interval intermittently.

5. A body fat removing apparatus installed in an athletic equipment, comprising:

20 a generating means generating electric pulses of low-frequency band;

a transmitting means transmitting the electric pulses to an exercising human body; and

25 an attaching means for attaching the transmitting means onto the exercising human body.

6. The apparatus set forth in claim 5, wherein said attaching means is a belt, a long band, an abdominal binder, or a suit which is made of flexible material.

7. The apparatus set forth in one of claims 1 to 5, further
30 comprising:

a measuring means for measuring heart rate of the human body;
and

a comparing means for comparing the measured heart rate with
a preset heart rate reference.

5 8. The apparatus set forth in claim 5, further comprising:
a measuring means for measuring heart rate of the human body;
a comparing means for comparing the measured heart rate with
a preset heart rate reference; and

a controller for controlling operation of said athletic
10 equipment based on the comparison result of said comparing means.

9. A method for removing body fat in a human body, comprising
the steps of:

generating electric pulses of low-frequency band; and
transmitting the electric pulses to an exercising human
15 body.

10. The method set forth in claim 9, further comprising the
steps of:

measuring heart rate of the human body; and
comparing the measured heart rate with a preset heart rate
20 reference.

11. The method set forth in claim 10, further comprising the
step of controlling operation of an athletic equipment based on
the result of said comparing step.

12. The method set forth in claim 11, wherein said
25 controlling step controls the exercising speed and/or slope
and/or exercising time of the athletic equipment.

13. The method set forth in claim 10 or 11, further
comprising the step of outputting a warning message or a warning
sound based on the result of said comparing step.

30 14. The method set forth in claim 10, wherein the heart rate
reference is determined based on an age and/or maximum heart rate
and/or fatness ratio of the human body.

15. A body fat removing apparatus installed in an aerobic

athletic equipment, comprising:

a measuring means for measuring heart rate of a user;

a comparing means for comparing the measured heart rate with a preset heart rate reference; and

5 a controller for controlling operation of said athletic equipment based on the comparison result of said comparing means.

16. An apparatus for removing body fat in a human body, comprising:

10 a generating means generating electric pulses of low-frequency band;

a transmitting means transmitting the electric pulses to an exercising human body;

an attaching means for attaching the conducting means onto the exercising human body, wherein said generating means, said 15 transmitting means, and said attaching means are installed in an athletic equipment;

a measuring means for measuring current heart rate of a person exercising on the athletic equipment;

20 a comparing means for comparing the measured heart rate with a preset heart rate reference; and

a controller for controlling operation of the athletic equipment based on the comparison result of the comparing means.

17. The apparatus set forth in claim 15 or 16, wherein the heart rate reference is determined based on an age and/or maximum 25 heart rate and/or fatness ratio of the person.

18. The apparatus set forth in claim 15 or 16, wherein said controller controls the exercising speed and/or slope and/or exercising time of the athletic equipment.

19. The apparatus set forth in claim 15 or 16, further 30 comprising an alarming means for outputting a warning message or a warning sound based on the comparison result of said comparing means.

AMENDED CLAIMS

[received by the International Bureau on 22 October 2001 (22.10.01);
original claim 1-19 replaced by amended claims 1-13 (3 pages)]

1. An apparatus for removing body fat in a human body,
comprising:

a heart rate detector of a human body;

5 a comparator, electrically coupled to said detector,
between the detected heart rate and a predetermined heart rate
reference; and

an aerobic athletic equipment operatively controlled by a
controller responsive to the output of the comparator.

10 2. An apparatus for removing body fat in a human body
comprising:

a heart rate detector of a human body;

a comparator, electrically coupled to said detector,
between the detected heart rate and a preset heart rate
15 reference; and

an indicator, coupled to the comparator, that output a
alarming signal responsive to the output of the comparator.

3. The apparatus set forth in one of claims 1 and 2,
further comprising:

20 a pulse generator in low frequency band; and

a transmitter, coupled to said generator, output the
pulse from said generator to human body in a aerobic exercise
state.

25 4. The apparatus for removing body fat in a human body,
comprising:

a pulse generator in low frequency band;

a transmitter, coupled to said generator, output the
pulse from said generator to human body in a aerobic exercise
state.

30 5. The apparatus set forth in claim 4, wherein said
generator changes the frequency band of the electric pulses

at intervals, or changes pulse interval intermittently.

6. The apparatus set forth in one of claims 3 and 4, wherein said transmitter comprises a contacting means on the human body.

5 7. The apparatus set forth in claim 4, wherein said contacting means consists of a plurality of positive(+) and negative(-) pole pads, arranged such that dipole moment of pads should be alternated.

10 8. A method for removing body fat in a human body, comprising the steps of:

detecting a heart rate of a human body;
comparing said detected heart rate to a predetermined heart rate; and

15 controlling operation of an aerobic athletic equipment responsive to the output of the comparing.

9. The method set forth in claim 7, wherein controlling step controls the driving speed and/or the driving slope of said aerobic athletic equipment.

20 10. A method for removing body fat in a human body, comprising the steps of:

detecting a heart rate of a human body;
comparing said detected heart rate to a predetermined heart rate; and

25 indicating a alarming signal responsive to the output of the comparator.

11. The method set forth in one of claims 7 to 9, further comprising:

30 generating electric pulses of low frequency band; and transmitting said generated pulse to human body in a aerobic exercise state.

12. The method for removing body fat in a human body, comprising the steps of:

generating electric pulses of low frequency band; and

transmitting said generated pulse to human body in a aerobic exercise state.

13. The method set forth in one of claims 9 and 10,
wherein the predetermined heart rate reference is determined
5 based upon an age and/or an maximum heart rate and/or an
fatness ratio of an user.